WELL ISOLATION DISTANCE WORKSHEET For WASTE STORAGE FACILITIES PRIVATE WELLS and TYPE IIB and III PUBLIC WELLS

(Following the criteria listed in Waste Storage Facility Practice Standard, Table 1)

Producer Name: Walnut dale County: VIEGan	
Farm location: Township OHN Range 12W Section 13 SW 4 of SW 4 of N	W1/4
Farm address: 4309 14th St Wayland MI 44348	
Prepared by: Date: Date: Date:	
Instructions: Enter the appropriate information for each step in the order they are presented and follow directions provided after each step. Attach a map of the farmstead showing the locations and identificator all waste storage facilities and wells included in the worksheet. This completed worksheet must be filed with the records for this farm.	tions
Note: Wells must be properly constructed and unused wells properly abandoned, as determined by the Michigan Department of Environmental Quality, local health department, or a registered well drilling contractor and bacteriologic and nitrate standard levels meet drinking water standards.	
1. Are there any wells located within 800 feet of any existing or planned waste storage facility on the YES NO (circle one) If YES, complete Part B for each well located within 800 feet before proceeding to Step 2. If NO, you may proceed with assistance without further consideration of well isolation distance.	
2. Are there any wells noted in any Part B-2 where the Actual Isolation Distance from a waste storage facility is <u>less</u> than the Minimum Isolation Distance? YES / NO (circle one) If YES <u>and</u> the waste storage facility is <u>existing</u> , proceed to step 3. If YES <u>and</u> the waste storage facility is <u>planned</u> , proceed to step 4. If NO, proceed with design and construction assistance. <u>Do not</u> proceed to Steps 3 or 4.	0001
 Existing waste storage facilities For each well where the actual isolation distance from an existing waste storage facility is not adequate, the Comprehensive Nutrient Management Plan (CNMP) must include the notation be No corrective action date is necessary. The isolation distance for well from existing waste storage facility from existing waste storage facility from existing waste storage facility. 	elow. n 🗲 _ does
 4. Planned waste storage facilities For each well where the actual isolation distance from a planned waste storage facility is not adequate, the CNMP must include the notation below. The corrective action and scheduled dat must be shown in the CNMP Schedule of Implementation.	does
- Verify in Part B-1 step 7 when corrective action, as noted in Part B-1 step 5, is fully implement	ed.

Isolation Distance Reduction for Part B-2				
Isolation distance reduction allowed down to	Isolation of	distance reduc	ction allowed down to	
400 feet where at least one of the following Protection	200 feet where at least one of the following Protection			
Factor combinations is documented in Part B-2	Factor combinations is documented in Part B-2			
A or,	A+B or, F+E or,			
B+D or,	A+C or, $F+B+C$ or,			
C+D or,	A+D or, $F+B+D$ or,			
F	A+F	or,	F+C+D	

WELL ISOLATION DISTANCE WORKSHEET For WASTE STORAGE FACILITIES And TYPE IIB and III PUBLIC WELLS and PRIVATE WELLS

(following the criteria listed in Waste Storage Facility Practice Standard, Table 1)

2 , 1 , 1 , 1	
oducer Name: Walnytdake	County: Allegan
ell Identification: Hory Rd	(1992)
repared by: Date: 2	Checked by: Date:
structions: Complete a separate Part B for each orage facility on the farm. Attach a copy of the	h well within 800 feet of any existing or planned waste ne well record, if available.
a deviation for this well in full consideration facilities located within 800 feet of this well? If YES, use the isolation distance allowe Minimum Well Isolation Distance block	of the location of <u>any</u> existing or planned waste storage? YES (NO) (circle one) d by the permit or deviation and record that distance in the ek on Part B-2 for each Waste Storage Facility where the y of permit or deviation). Proceed to step 2.
If YES, proceed to step 3. If NO, casing depth is less than allowed	below the ground surface? YES NO (circle one) by state of Michigan law. Unless casing depth is extended to from MDEQ or the local health department in order to procee
The well is used for the milkhouse or mi The well is connected to a potable plumb at any time during the year. YES N If YES to <u>any</u> of the above cond	itions, this is a public well. Proceed to Step 4. ons, this is a private well. Proceed to Part B-2 recording
average not more than 100,000 gallons per date of the second of the seco	minute YES / NO (circle one) Is the project withdrawal ay for any 30 consecutive days? YES / NO (circle one) rt B-2. Is the limit established by MDEQ. Unless capacity or quired from MDEQ or the local health department in order
Are there any <u>planned</u> waste storage facilities than the Minimum Isolation Distance? If YES, proceed to step 6. If NO, proceed to Part A step 2.	es noted in Part B-2 where the Actual Isolation Distance is YES NO (circle one)
	d the correction action(s) needed so the Actual Isolation num Isolation Distance then proceed to Part A step 2.
Planned Waste Storage Facility	Corrective Action(s) Required
	ive action is fully implemented as required above for this any planned waste storage facility was not adequate.
Verified By:	Date:

PAR -2

WELL ISOLATION DISTANCE WORKSHEET For WASTE STORAGE FACILITIES And TYPE IIB and III PUBLIC WELLS and PRIVATE WELLS

Instructions: At the top of the table, enter the identification/description of each waste storage facility within 800 feet of the well and circle Existing or Planned for each storage. Then indicate whether or not the each well protection factor applies relative to each waste storage facility. Use information from the well records and information on the individual waste storage facility. Where on-site soils investigations provide additional information, attach a copy of the investigation report and note on the worksheet where the investigation information altered the worksheet results, as applicable. After completing the table, return to step 5 on Part B-1.

Producer Name: Walnutdak County: A	Hlegan Prepared	by: Date:	S/25 Checked by: _	Date:
Well Identification: Along 14th st (1992) Waste Storage Facilities within 800 feet of the Well				/ell
ven identification. 74 10 9 1 1 1 2 1 277	Identification/Description:	Identification/Description:	Identification/Description:	Identification/Description:
Well Protection Factors	Existing / Planned	Existing / Planned	Existing / Planned	Existing Planned
A - Ground water flow direction is away from well	YES / NO / UNKNOWN (circle one)	YES / NO / UNKNOWN (circle one)	YES / NO / UNKNOWN (circle one)	YES / NO / UNKNOWN (circle one)
B - Confining material of 10 feet of continuous clay or shale or 20 feet of a continuous clay mixture* below the design bottom elevation of the waste storage facility	YES / NO (circle one)	Thickness = 16 feet	CLAY, CLAY	/ MIXTURE or SHALE (circle one)
C - Well casing depth is 100 feet or more	YES / NO (circle one)	Actual Casing Depth =	<u>85'</u> feet	
D - Well pump capacity is 25 gallons per minute or less	YES / NO (circle one)	Well pump capacity =	20 gallon	ns per minute
E - Confining material [minimum of 10 feet continuous clay or shale or 20 feet continuous clay mixture* below the design bottom elevation of the waste storage facility] + Well casing depth [minimum of 60 feet casing depth] = 100 feet or more	YES / NO (circle one) Actual Casing Depth = _	Thickness = 16 feet	CLAY, CLAY	MIXTURE or SHALE (circle one)
F - Waste storage facility constructed with flexible membrane liner, reinforced concrete**, or steel, or solid manure stacking facility with roof and concrete floor constructed in accordance with USDA NRCS-Michigan Field Office Technical Guide standards/specifications and sited/graded to protect the water supply in the event of failure	YES / NO (circle one) Describe facility type and liner, as appropriate:	YES / NO (circle one) (Describe facility type and liner, as appropriate: Concret	YES NO (circle one) Describe facility type and liner, as appropriate: Prefab Slury Store	Describe facility type and liner, as appropriate:
List the well protection factors (A, B, C, D, E, or F) with a "Yes" response for each individual waste storage facility.	BDEF	BDEF	BDEF	BDEF
Minimum Well Isolation Distance in feet (based on Part B-1 step 1, Part B-1 step 3, or Isolation Distance Reduction table at the bottom of Part A, whichever is less.)	200 Feet	200 Feet	200 Feet	200 Feet
Actual Well Isolation Distance in feet.	336' Feet	3/4' Feet	545' Feet	502' Feet
Is the Actual Well Isolation Distance <u>LESS</u> than the Minimum Well Isolation Distance?	YES /NO (circle one)	YES / NO (circle one)	YES / NO (circle one)	YES NO (circle one)

^{*}Note – For continuous clay mixtures, when interpreting water well record information contained under Formation Description, the first material named is the dominant material in the strata being described. For example: (a) If the material is described as "clay/sand/gravel," clay is the dominant material and would classify as a continuous clay mixture; (b) If the material is described as "sand/clay," it would not be acceptable as a continuous clay mixture since sand is the dominant material.

^{**}Note – Reinforced concrete structures include tanks with pre-cast or cast-in-place reinforced concrete walls and plain concrete floors where: (1) the floor is placed below the natural ground surface to a depth equal to at least 3/4 of the maximum wall height, and (2) the walls are backfilled to a depth equal to at least 3/4 of the wall height.

WELL ISOLATION DISTANCE WORKSHEET For WASTE STORAGE FACILITIES And TYPE IIB and III PUBLIC WELLS and PRIVATE WELLS

Instructions: At the top of the table, enter the identification/description of each waste storage facility within 800 feet of the well and circle Existing or Planned for each storage. Then indicate whether or not the each well protection factor applies relative to each waste storage facility. Use information from the well records and information on the individual waste storage facility. Where on-site soils investigations provide additional information, attach a copy of the investigation report and note on the worksheet where the investigation information altered the worksheet results, as applicable. After completing the table, return to step 5 on Part B-1.

Producer Name: Walnutdate County: 1	Hlegan Prepared	by: Date:	Checked by: _	Date:
Well Identification: Along 14thst	Waste Storage Facilities within 800 feet of the Well			
Well Identification.	Identification/Description:	Identification/Description:	Identification/Description:	Identification/Description:
Well Protection Factors	Existing / Planned	Existing / Planned	Existing / Planned	Existing / Planned
A - Ground water flow direction is away from well	YES / NO / UNKNOWN (circle one)	YES / NO /UNKNOWN (circle one)	YES / NO (UNKNOWN) (circle one)	YES / NO (UNKNOWN (circle one)
B - Confining material of 10 feet of continuous clay or shale or 20 feet of a continuous clay mixture* below the design bottom elevation of the waste storage facility	YES NO (circle one)	Thickness = $\frac{16}{6}$ feet	CLAY, CLAY	MIXTURE or SHALE (circle one)
C - Well casing depth is 100 feet or more	YES NO (circle one)	Actual Casing Depth =	85 feet	
D - Well pump capacity is 25 gallons per minute or less (YES / NO (circle one)	Well pump capacity =	20 gallor	ns per minute
E - Confining material [minimum of 10 feet continuous clay or shale or 20 feet continuous clay mixture* below the design bottom elevation of the waste storage facility] + Well casing depth [minimum of 60 feet casing depth] = 100 feet or more	YES NO (circle one) Actual Casing Depth =	Thickness = $\frac{16}{85}$ feet feet		MIXTURE or SHALE (circle one)
F - Waste storage facility constructed with flexible membrane liner, reinforced concrete**, or steel, or solid manure stacking facility with roof and concrete floor constructed in accordance with USDA NRCS-Michigan Field Office Technical Guide standards/specifications and sited/graded to protect the water supply in the event of failure	YES NO (circle one) Describe facility type and liner, as appropriate: Concrete	VES / NO (circle one) (Describe facility type and liner, as appropriate:	YES/ NO (circle one) Describe facility type and liner, as appropriate: Ruble Inch	PES / NO (circle one) Describe facility type and liner, as appropriate:
List the well protection factors (A, B, C, D, E, or F) with a "Yes" response for each individual waste storage facility.	BDEF	BDEF	BDEC	BDEF
Minimum Well Isolation Distance in feet (based on Part B-1 step 1, Part B-1 step 3, or Isolation Distance Reduction table at the bottom of Part A, whichever is less.)	200 Feet	200 Feet	200 Feet	200 Feet
Actual Well Isolation Distance in feet.	548 Feet	908 Feet	407 Feet	600 Feet
Is the Actual Well Isolation Distance <u>LESS</u> than the Minimum Well Isolation Distance?	YES / NO (circle one)	YES NO (circle one)	YES NO (circle one)	YES NO (circle one)

^{*}Note – For continuous clay mixtures, when interpreting water well record information contained under Formation Description, the first material named is the dominant material in the strata being described. For example: (a) If the material is described as "clay/sand/gravel," clay is the dominant material and would classify as a continuous clay mixture; (b) If the material is described as "sand/clay," it would not be acceptable as a continuous clay mixture since sand is the dominant material.

^{**}Note – Reinforced concrete structures include tanks with pre-cast or cast-in-place reinforced concrete walls and plain concrete floors where: (1) the floor is placed below the natural ground surface to a depth equal to at least 3/4 of the maximum wall height, and (2) the walls are backfilled to a depth equal to at least 3/4 of the wall height.

MICHIGAN	DEPARTI	MENT OF	PUBLIC HEALTH
Language and the second	WELL A	AND PU	JMP RECORD PERMIT NUMBER
1 LOCATION OF WELL County Township Name		Fraction	Section Number Town Number Range Number
ALLEGAN DORR			SW 1/4 NW 1/4 13 O4N N/S 12W E/M
Distance And Direction From Road Intersection			3 OWNER OF WELL:
			RALPH LETTINGA Address 4309 14TH ST
	H ST.		WAYLAND, MI 49348
Street Address & City of Well Location			Address Same As Well Location? Yes No
Locate with "X" in Section Below St	etch Map:		4 WELL DEPTH: Date Completed 93 FT. Date Completed Replacement Well
			FT. Replacement Well The property of the
			Hollow rod Auger Jetted
"			6 USE: Domestic Type I Public Type III Public
			☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ TARM
1 MILE			7 CASING: Steel Threaded Height: Above/Below Strace Strace Surface Threaded Surface Threade
2 FORMATION DESCRIPTION	THICKNESS OF	DEPTH TO BOTTOM OF	in. toft. depthlbs./ft.
	STRATUM	STRATUM	Gruted Drill Ge Diameter
RED CLAY	12.0	12.0	in. toft. depth
GRAY CLAY	4.0	16.0	8 SCREEN: Noninstalled
FURTAL TARGET	22.0 (3	2.000	Type Diameter
STONES	2.0	18.0	Slot/Gauze 85 Length 93
SANDY GRAY CLAY	58.0	76.0	Set betweenft. andft. FUTINGS: K-Packer Lead Packer Bremer Check
Dani Chi	30.0	10.0	Blank above screen
SAND	18.0	94.0	
AN AT HE OF THE	1 0	OE O	10 PUMPING LEVEL: below land surface
GRAVEL & CLAY	1.0	95.0	85" 1 65 A3
			ft. əftər hrs. pumping at G.P.M.
			11 WELL HEAD Pitless adapter 12" above grade
			Basement offset Approved pit
			No Yes From to to to
		******	Neat cement Bentonite Other
			No. of bags of cementAdditives
			13 Nearest source of possible contamination Type Distance 75 ft. Direction E
			Well disinfected upon completion? Yes No
77 19 23 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 77	, · ·	Was old well plugged?
A commercial		4.3.7.7%	14 PUMP: Not Installed Pump Installation Only
11. 7	17 2 100		Manufacturer's nam8E10412 1 230
a said d			Model number 125 10 20 20 24 C.P.M. Length of Dree Pipe 11. 25 11. capacity
10.7116.63	the series	7	TYPE: Submersible ACTIO
(A · · · · · · · · · · · · · · · · · ·			PRESSURE TANK: Manufacturer's name
USE A 2ND SHEET IF NEEDED			Model number V-250 Capacity 64 Gallo
15. Remarks, elevation, source of data, etc.			R WELL CONTRACTOR'S CERTIFICATION:
6 BAGS GIBRALTER GRAVEL PACK	SAND.		ell was drilled under my jurisdiction and this report is true RE URINO DETICATION 41-1772
	The state of the s		
17. Rig Operator's Name:		Addres	259 P. BUMATINME CALEDONIA, THAIN NO 49316
		Adules	(1000000 D) Que - 0-29-92

Signed AUTHORIZED REPRESENTATIVE
AUTHORIZED REPRESENTATIVE
Completion:
Penalty:
Penalty:
Of any provision is Act 368 PA 1978
Required
Conviction of a violation
of any provision is a
misdemeanor.

D67d 2/89

WELL ISOLATION DISTANCE WORKSHEET For WASTE STORAGE FACILITIES And TYPE IIB and III PUBLIC WELLS and PRIVATE WELLS

(following the criteria listed in Waste Storage Facility Practice Standard, Table 1)

oducer Name: Walnutdale	County: Allegan
ell Identification: Well epared by: JJ \(\) Date: 5/6	Checked by: Date:
	n well within 800 feet of any existing or planned waste
a deviation for this well in full consideration facilities located within 800 feet of this well? If YES, use the isolation distance allowe Minimum Well Isolation Distance block	of the location of <u>any</u> existing or planned waste storage YES / NO (circle one) d by the permit or deviation and record that distance in the k on Part B-2 for each Waste Storage Facility where the y of permit or deviation). Proceed to step 2.
If YES, proceed to step 3. If NO, casing depth is less than allowed	below the ground surface? YES / NO (circle one) by state of Michigan law. Unless casing depth is extended from MDEQ or the local health department in order to proce
Do any of the following conditions apply? The well record indicates the well is a Ty The well is used for the milkhouse or mi The well is connected to a potable plumb at any time during the year. YES / N If YES to any of the above cond	Type IIb or Type III public well. YES / NO (circle one) lking parlor for a Grade A dairy. YES / NO (circle one) sing system and is on a farm that has at least one employee O (circle one) itions, this is a public well. Proceed to Step 4. ons, this is a private well. Proceed to Part B-2 recording
average not more than 100,000 gallons per date of YES to <u>either</u> question, proceed to Part If NO to <u>both</u> questions, capacity exceeds	ninute? YES / NO (circle one) Is the project withdrawary for any 30 consecutive days? YES / NO (circle one) at B-2. Is the limit established by MDEQ. Unless capacity or equired from MDEQ or the local health department in order
Are there any <u>planned</u> waste storage facilities than the Minimum Isolation Distance? If YES, proceed to step 6. If NO, proceed to Part A step 2.	es noted in Part B-2 where the Actual Isolation Distance is YES /NO (circle one)
	If the correction action(s) needed so the Actual Isolation num Isolation Distance then proceed to Part A step 2.
Planned Waste Storage Facility	Corrective Action(s) Required
	ive action is fully implemented as required above for this any planned waste storage facility was not adequate.
** 10 15	Date:
Verified By:	

WELL ISOLATION DISTANCE WORKSHEET For WASTE STORAGE FACILITIES And TYPE IIB and III PUBLIC WELLS and PRIVATE WELLS

#/

Instructions: At the top of the table, enter the identification/description of each waste storage facility within 800 feet of the well and circle Existing or Planned for each storage. Then indicate whether or not the each well protection factor applies relative to each waste storage facility. Use information from the well records and information on the individual waste storage facility. Where on-site soils investigations provide additional information, attach a copy of the investigation report and note on the worksheet where the investigation information altered the worksheet results, as applicable. After completing the table, return to step 5 on Part B-1.

Producer Name: Walnutdale County: A	Hegan Prepared	by: J Date:	Shecked by: _	Date:
Well Identification: Don's Well (1999)	Waste Storage Facilities within 800 feet of the Well			
<u> </u>	Identification/Description:	Identification/Description:	Identification/Description:	Identification/Description:
Well Protection Factors	Existing Planned	Existing / Planned	Existing / Planned	Existing / Planned
A - Ground water flow direction is away from well	YES / NO / UNKNOWN (circle one)	YES / NO / UNKNOWN (circle one)	YES / NO / UNKNOWN (circle one)	YES / NO / UNKNOWN (circle one)
B - Confining material of 10 feet of continuous clay or shale or 20 feet of a continuous clay mixture* below the design bottom elevation of the waste storage facility	YES / NO (circle one)	Thickness = 60 feet	CLAY, CLAY	MIXTURE or SHALE (circle one)
C - Well casing depth is 100 feet or more	YES / NO (circle one)	Actual Casing Depth =	feet	
D - Well pump capacity is 25 gallons per minute or less	YES / NO (circle one)	Well pump capacity = _	22 gallor	ns per minute
E - Confining material [minimum of 10 feet continuous clay or shale or 20 feet continuous clay mixture* below the design bottom elevation of the waste storage facility] + Well casing depth [minimum of 60 feet casing depth] = 100 feet or more	YES / NO (circle one) Actual Casing Depth =	97	CLAY, CLAY	MIXTURE or SHALE (circle one)
F - Waste storage facility constructed with flexible membrane liner, reinforced concrete**, or steel, or solid manure stacking facility with roof and concrete floor constructed in accordance with USDA NRCS-Michigan Field Office Technical Guide standards/specifications and sited/graded to protect the water supply in the event of failure	YES / NO (circle one) Describe facility type and liner, as appropriate:	YES / NO (circle one) Describe facility type and liner, as appropriate: Concret	YES / NO (circle one) Describe facility type and liner, as appropriate:	YES / NO (circle one) Describe facility type and liner, as appropriate: Concrete
List the well protection factors (A, B, C, D, E, or F) with a "Yes" response for each individual waste storage facility.	BDEF	BDEF	BDEF	BDEF
Minimum Well Isolation Distance in feet (based on Part B-1 step 1, Part B-1 step 3, or Isolation Distance Reduction table at the bottom of Part A, whichever is less.)	150 Feet	150 Feet	150 Feet	150 Feet
Actual Well Isolation Distance in feet.	775 Feet	655 Feet	296 Feet	382 Feet
Is the Actual Well Isolation Distance <u>LESS</u> than the Minimum Well Isolation Distance?	YES NO (circle one)	YES / NO (circle one)	YES / (Circle one)	YES NO (circle one)

^{*}Note – For continuous clay mixtures, when interpreting water well record information contained under Formation Description, the first material named is the dominant material in the strata being described. For example: (a) If the material is described as "clay/sand/gravel," clay is the dominant material and would classify as a continuous clay mixture; (b) If the material is described as "sand/clay," it would not be acceptable as a continuous clay mixture since sand is the dominant material.

^{**}Note – Reinforced concrete structures include tanks with pre-cast or cast-in-place reinforced concrete walls and plain concrete floors where: (1) the floor is placed below the natural ground surface to a depth equal to at least 3/4 of the maximum wall height, and (2) the walls are backfilled to a depth equal to at least 3/4 of the wall height.

WELL ISOLATION DISTANCE WORKSHEET For WASTE STORAGE FACILITIES And TYPE IIB and III PUBLIC WELLS and PRIVATE WELLS



Instructions: At the top of the table, enter the identification/description of each waste storage facility within 800 feet of the well and circle Existing or Planned for each storage. Then indicate whether or not the each well protection factor applies relative to each waste storage facility. Use information from the well records and information on the individual waste storage facility. Where on-site soils investigations provide additional information, attach a copy of the investigation report and note on the worksheet where the investigation information altered the worksheet results, as applicable. After completing the table, return to step 5 on Part B-1.

Producer Name: Walnutdill County:	Hlesan Prepared	by: Date:	Shecked by: _	Date:	
Well Identification: Bans Well (1999)	Waste Storage Facilities within 800 feet of the Well				
well identification. Vivi Civi Civi	Identification/Description:	Identification/Description:	Identification/Description:	Identification/Description:	
Well Protection Factors	Existing Planned	Existing / Planned	Existing / Planned	Existing Planned	
A - Ground water flow direction is away from well	YES / NO /UNKNOWN (circle one)	YES / NO / UNKNOWN (circle one)	YES / NO / UNKNOWN (circle one)	YES / NO LUNKNOWN (circle one)	
B - Confining material of 10 feet of continuous clay or shale or 20 feet of a continuous clay mixture* below the design bottom elevation of the waste storage facility	YES / NO (circle one)	Thickness = 6 feet	CLAY) QLAY	MIXTURE or SHALE (circle one)	
C - Well casing depth is 100 feet or more	YES / NO (circle one)	Actual Casing Depth =	83_feet		
D - Well pump capacity is 25 gallons per minute or less	YES NO (circle one)	Well pump capacity =	22 gallon	ns per minute	
E - Confining material [minimum of 10 feet continuous clay or shale or 20 feet continuous clay mixture* below the design bottom elevation of the waste storage facility] + Well casing depth [minimum of 60 feet casing depth] = 100 feet or more	VES NO (circle one) Actual Casing Depth =	Thickness = 60 feet	CLAY, CKAY	MIXTURE or SHALE (circle one)	
F - Waste storage facility constructed with flexible membrane liner, reinforced concrete**, or steel, or solid manure stacking facility with roof and concrete floor constructed in accordance with USDA NRCS-Michigan Field Office Technical Guide standards/specifications and sited/graded to protect the water supply in the event of failure	Describe facility type and liner, as appropriate:	Describe facility type and liner, as appropriate:	Describe facility type and liner, as appropriate:	YES / NO (circle one) Describe facility type and liner, as appropriate:	
List the well protection factors (A, B, C, D, E, or F) with a "Yes" response for each individual waste storage facility.	BDEF	BDEF	BDEF	BDEF	
Minimum Well Isolation Distance in feet (based on Part B-1 step 1, Part B-1 step 3, or Isolation Distance Reduction table at the bottom of Part A, whichever is less.)	/50 Feet	150 Feet	NO Feet	150 Feet	
Actual Well Isolation Distance in feet.	109 Feet	308 Feet	450 Feet	75 Feet	
Is the Actual Well Isolation Distance <u>LESS</u> than the Minimum Well Isolation Distance?	YES / NO (circle one)	YES NO (circle one)	YES /NO (circle one)	YES/ NO (circle one)	

^{*}Note – For continuous clay mixtures, when interpreting water well record information contained under Formation Description, the first material named is the dominant material in the strata being described. For example: (a) If the material is described as "clay/sand/gravel," clay is the dominant material and would classify as a continuous clay mixture; (b) If the material is described as "sand/clay," it would not be acceptable as a continuous clay mixture since sand is the dominant material.

^{**}Note – Reinforced concrete structures include tanks with pre-cast or cast-in-place reinforced concrete walls and plain concrete floors where: (1) the floor is placed below the natural ground surface to a depth equal to at least 3/4 of the maximum wall height, and (2) the walls are backfilled to a depth equal to at least 3/4 of the wall height.

DEC MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY DRINKING WATER & RADIOLOGICAL PROTECTION DIVISION WATER WELL AND PUMP RECORD PERMIT NO: NO: Completion is required under authority of Part 127 Act 368 PA 1978 Failure to comply is a misdemeanor LOCATION OF WELL Township Name Section No. Town No. Range No. County Fraction SW 1/4SW 1/4NW 1/4 ALLEGAN 4 N 12 W DORR 13 Distance and Direction from Road Intersection 3. OWNER OF WELL NORTH CATTLE BARN WAINUTDALE FARMS Address 4309 14TH ST WAYLAND, MI 49348 4309 14TH ST. WAYLAND, MI Address Same as Well Location X Yes I No Street Address & City of Well Location Locate with 'x' in Section Below Sketch Map 4. WELL DEPTH: Date Completed New Well 80 11/8/99 Replacement Well X Rotary Driven Dug Cable Tool Hollow Rod Jetted Auger/Bored X 6. USE: Household Type I Public Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump Test Well Type IIb Public XCATTLE BARN 7. CASING: Steel Threaded Height: Above個劍w Surface: 1 ft Plastic Welded DEPTH TO BOTTOM OF SYRATUM THICKNESS FORMATION DESCRIPTION Other STRATUM Diameter: 5 in. to 70 ft. depth Weight: 2.95 lbs/ft. _in. to ____ft. depth CLAY (RED SANDY) BORE HOLE: Drive Shoe Diameter: 8 in. to85 ft. depth Shale Packer CLAY (RED) 8 12 ___in. to ____ft, depth CLAY (GRAY) 48 60 8. SCREEN: Not installed X Gravel-Packed __ Diameter · STAINLESS FINE SAND & GRAY CLAY Type 2 62 Slov/Gauze . 020 & :015 Length: SAND (MEDIUM) 8 70 Set Between____ 70 ft. and 80 K-Packer Bremer Check 10 GRAVEL (FINE) 80 CLAY (GRAY) 3 83 9. STATIC WATER LEVEL: 31 It. Below Land Surface Flowing 10. PUMPING LEVEL: Below Land Surface 65 ft. After 1 hrs. Pumping at 60 G.P.M. Test Pump Plunger Bailer DE Air 11. WELL HEAD COMPLETION: Pitless Adapter 12" Above Grade Basement Offset ☐ Well House From 0 to 61 12. WELL GROUTED? No X Yes Bentonite Neat Cement Other No. of Bags 6 Additives 13. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ARCHITECTURE OF CASE Type BARNYARD Distance 75 ft. Direction E Type_____ Distance _____ft. Direction__ USE A 2ND SHEET IF NEEDED 1150 25 Not Installed Pump Installation Only Yes No 15. ABANDONED WELL PLUGGED? Manufacturer's Name GOULDS Casing Diameter _____in. Depth Model Number 18(1810 HP 1 Volts240 Bentonite Stury

Bentonite Chips PLUGGING MATERIAL: Neat Cement Length of Drop Pip 11 11 60 ft. Capacity 50# 22 G.P.M. Cement/Bentonite Slurry Concrete Grout TYPE: Submersible Jet Other Yes No No. of Bags Casing Removed? PRESSURE TANK: REMARKS: (Elevation, Source of Data, etc.) WELL RITE Manufacturer's Name NITRATES O PPM IRON O PPM HARDNESS 15 GR Model Number WR 260 Capacity 85 Gallons 900# BADGER FILTER PACK/SAND 18. WATER WELL CONTRACTOR'S CERTIFICATION: DR DW 1' AFTER 30 MIN @ 22 GPM This well was drilled under my jurisdiction and this report is true to the best of my. knowledge and belief. DRILLING MACHINE OPERATOR: BUER WELL DRILLING Employee Subcontractor

EQP 2017 (12/96)

Name STEVE BUER #2028